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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/469,162 12/21/1999		MINORU MIYATAKE	Q57339	4626	
7:	590 05/08/2002				
SUGHRUE MION ZINN MACPEAK & SEAS PLLC 2100 PENNSYLVANIA AVE NW WASHINGTON, DC 20037			EXAMINER		
			CHUNG, DAVID Y		
			ART UNIT	PAPER NUMBER	
			2871		

DATE MAILED: 05/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Jeffiey Schwidt

			Applica	tion No.		Applicant(s)			
		.	09/469,	162		MIYATAKE ET AL.			
	Offic	Action Summary	Examin	er		Art Unit			
			David C	hung		2871			
		LING DATE of this commu	inication appears on t	he cover sl	heet with the c	orrespondence address			
Period for	r Reply	STATUTORY PERIOD	FOR REDI V IS SET	TO EXPIR	RE 3 MONTH(S) FROM			
THE N - Extension after S - If the If NO - Failure	MAILING [sions of time is SIX (6) MONT period for repl period for repl e to reply with	DATE OF THIS COMMU may be available under the provision the mailing date of this continuous.	NICATION. sins of 37 CFR 1.136(a). In no mmunication. (30) days, a reply within the si statutory period will apply and ply will, by statute, cause the sis after the mailing date of this	event, however statutory minimum d will expire SIX	r, may a reply be tin um of thirty (30) day (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)	Respons	sive to communication(s)	filed on						
2a)□	This act	ion is FINAL .	2b) This action						
3)	Cines th	is application is in condit	ion for allowance exc	ept for forr	mal matters, p	rosecution as to the merits is			
Dispositi	on of Cla			Quayle, 1	300 O.D. 11,				
4)	Claim(s)	is/are pending in	the application.						
		e above claim(s) is	s/are withdrawn from	considerat	ion.				
5)	Claim(s)	is/are allowed.							
• —	6)⊠ Claim(s) <u>1-10</u> is/are rejected.								
		is/are objected to							
		are subject to res	striction and/or election	n requirem	ient.				
	ion Pape		the Eveniner						
9)	The spec	ification is objected to by	the Examiner.	\□ objecte	d to by the Ex	aminer.			
10)	The draw	ring(s) filed on is/a nt may not request that any	re: a) accepted of b	a(s) he held	in abevance.	See 37 CFR 1.85(a).			
44)	Applica	nt may not request that any osed drawing correction	filed on is: a)	approve	d b)∏ disapp	roved by the Examiner.			
11) <u> </u>	i ne prop	osed drawing correction	required in reply to thi	s Office acti	on.				
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.									
		U.S.C. §§ 119 and 120							
Priority	Acknow	ledgment is made of a cl	aim for foreign priorit	v under 35	U.S.C. § 119	(a)-(d) or (f).			
I .				•					
a,	 a) ⋈ All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 								
	— and the state of								
	Certified copies of the priority documents have been received in Application 1. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
*	See the a	ttached detailed Office a	action for a list of the	certified co	pies not recei	ved.			
14)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	a) 🗀 The	e translation of the foreign edgment is made of a cla	n language provision	al application	on has been r	eceived.			
Attachme		•							
1) Not	tice of Refer	rences Cited (PTO-892) sperson's Patent Drawing Revi sclosure Statement(s) (PTO-14	ew (PTO-948) 49) Paper No(s)	5) 🔲	Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)			

Application/Control Number: 09/469,162

Art Unit: ***

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 rejected under 35 U.S.C. 103(a) as being unpatentable over Hiji et al. (U.S. 5,953,089) in further view of Ouderkirk et al. (U.S. 5,825,543). Hiji et al. discloses a reflective liquid crystal display with light diffusing layer 30. This light-diffusing layer comprises a liquid crystalline polymer. See figure 1. Note the chemical formula of the liquid crystal polymer in column 4, line 55. The dimensions of the dispersed liquid crystal polymer particles are result effective variables, the determination of which has been judicially deemed as obvious to those of ordinary skill in the art.

Although Hiji et al. does not disclose the difference in refractive index between the continuous regions and the polymer dispersed regions, Ouderkirk et al. discloses an optical film where the index of refraction of continuous and disperse phases are substantially matched along a first orthogonal axis and substantially mismatched along a second orthogonal axis. The indices of the two regions differ by no more than 0.03 in the matched regions and differ by at least 0.07 in the mismatched regions. This type of scheme provides a high degree of control in providing optical bodies of consistent and

Art Unit: ***

predictable high quality performance. See column 7, lines 30 – 37. Therefore, it would have been obvious for one of ordinary skill to use the scheme taught by Ouderkirk et al. in the diffusing layer of Hiji et al. because of the aforementioned benefits.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (703) 306-0155. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung GAU 2871 05/06/02

Kenneth Parker Primary Examiner GAU 2871

Page 3